



Interreg  
Europe



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OD4GROWTH



# geOcom 2026 & OD4Growth Partnership Meeting



**Name of Presenter**

*Policy Officer at the Interreg Europe secretariat*

*[email@interregeurope.eu](mailto:email@interregeurope.eu)*

11th June 2026 | Hybrid event

# Welcome to the «\_geOcom 2026\_» !

## geOrchestra, a community-driven project

### With many communication & contribution tools

- Googlegroups lists
- GitHub issues, bug reports and pull requests
- IRC / Matrix / Element channels
- ...

With **« Community meetings »** – twice a year – for contributors (developers, documentation, translation, explore use cases, etc.)

And an annual meeting since 2013 for users and developers : the « geOcom »



# Wath is «\_geOrchestra » ?

- **Open-source solution** for deploying (spatial) data infrastructure
- **Modular solution** based on leading tools in the field of (geographic) data
- **Independant and interoperable modules** to build your own custom (spatial) data infrastructure

With more technical words :

- **A data catalog** based on GeoNetwork and GN-UI (DataHub)
- **A map and feature server** (GeoServer)
- **A map tiles server** (GeoWebCache)
- **An advanced web map viewer** with query, styling, editing functions (MapStore),
- **A dashbord builder** (SuperSet)
- **A centralised users, orgs & roles manager**
- **A module to manage statistics**
- **Many satellites** : interoperable modules that orbit around and connect to the solution (Mviewer/mViwer Studio, GeoContrib, etc.)



# Who are using geOrchestra ?

**+30 platforms** and organizations in  
**+8 countries**

From :

- Subnational level
- Urban area level
- Research and education
- Compagnies

Cf. <https://www.georchestra.org/community.html>



Subnational level

Urban area level

Research and education:

Companies

International organizations and associations:

Métropole Européenne de Lille  
OpenData  
Learn more →

GeoData INRAE  
INRAE  
GeoData INRAE  
Learn more →

IRD  
DataSuds-geo  
Learn more →

Deutsche Telekom  
Deutsche Telekom AG is a German telecommunications company headquartered in Bonn and by revenue the largest telecommunications provider in Europe.  
→

TerraNIS  
a French company specialized in the design, development and commercialization of geoinformation services in agriculture and environment domains  
Learn more →

Companhia de Desenvolvimento Habitacional e Urbano (São Paulo - Brazil)  
CDHU is a Public Housing company: we build houses for low income and vulnerable people in São Paulo State  
Learn more (Brazil-limited) →

Municipi (Portuga)  
Learn more →

UMR Silva (INRAE - Université de Lorraine)  
Learn more →

UMR Théma Université de  
Learn more →

UMR Littoral, Environnement, Télédetection, Géomatique (CNRS - Nantes, Brest, Rennes, Caen)  
Indigeo  
Learn more →










Observatoire Sciences de Rennes  
OSURIS  
Learn more →

FAO representation in Bolivia  
Learn more →





Les Libres Géographes  
with IFL project  
Learn more →

# OD4GROWTH project

## Partenaires :

-  Veneto Region (IT)
-  Pannon Business Network Association (HU)
-  Mazovia Development Agency (PL)
-  Municipality of Szombathely City with county rights (HU)
-  Andalusian Federation of Municipalities and Provinces (FAMP) (ES)
-  Grand E-Nov+ (FR)
-  Liepāja city municipal administration (LV)
-  Administration of Silute District Municipality (LT)
-  Regional Development Fund of Eastern Macedonia-Thrace (EL)

## Partenaires associés :

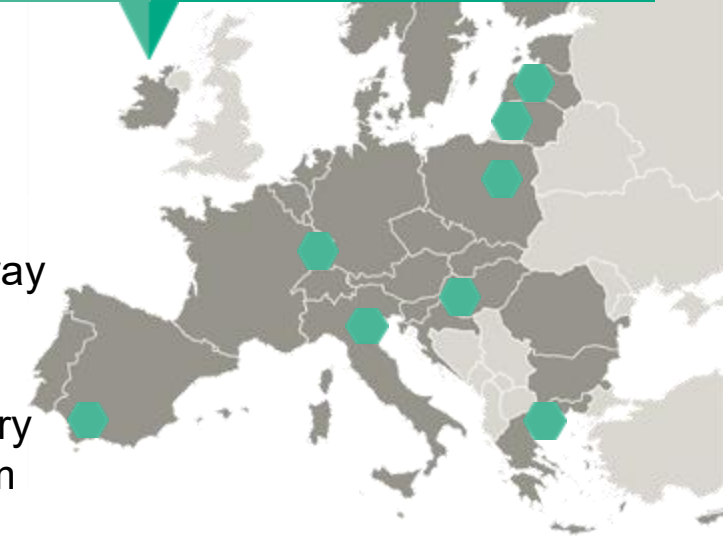
-  Région Grand Est, France
-  East Macedonia and Thrace Region, Greece
-  Marshal's Office of the Mazovian Voivodeship, Poland
-  Agencia Digital de Andalucía, Spain

Improve the availability and use of Open Data to support local development and urban transformation

9 Partners  
1 Objective

## Actions taken:

- Analysed the support initiatives already underway
- Shared best practices with one another
- Designed complementary initiatives and tested them



## The project's intended outcomes

The improvement of policy instruments to provide better support for stakeholders

# OD4growth Achievements and Good practices

## An overview

of some best practices that may resemble the use cases you encounter in your day-to-day work

[www.interreurope.eu/ACRONYM](http://www.interreurope.eu/ACRONYM)



**Open Data Observatory for Public Procurement in Grand Est Region**



**Open Data MP**



**Malaga Council City's Open Data Portal**

OD Málaga platform promotes transparency and innovation offering free access to diverse high-quality municipal datasets for public use and smart city solutions



**Conversational intelligence to support the production of high-quality open data**



**Montilla's Municipal Data Office**

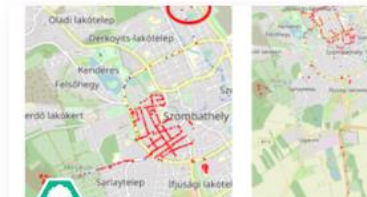
By centralizing data management and analysis, the office is positioned to support informed policy-making and better service delivery for the community.

02 Jul 2025 | By project OD4GROWTH

Expert approved



**Open Data Smart City Poznan Application – Urban Data Integrator**

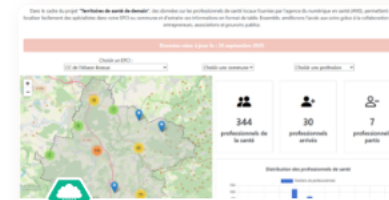


**Route planning optimization of waste collection vehicles with the help of open data**

A solution to optimise the routes of waste collection vehicles using open data in the city of Szombathely, Hungary.

09 Aug 2024 | By project OD4GROWTH

Expert approved



**OD4G From an Open Data Healthcare professionals Directory to regional healthcare pathways management**



**Andalucia's Open Data Portal**

Andalusian Gov's Open Data Portal offers 800+ datasets, tools, and apps to support data reuse and help create innovative services and applications.

02 Jul 2025 | By project OD4GROWTH

Expert approved

**For more details**

**or examples :** [Search good practices | Interreg Europe](#)



# Route planning optimization of waste collection vehicles



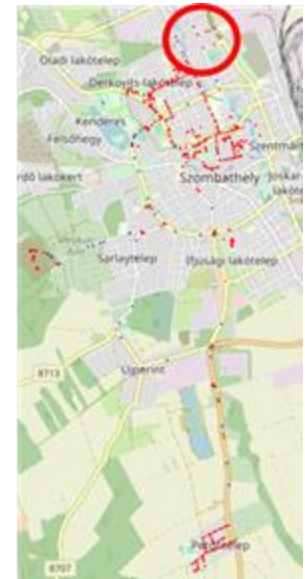
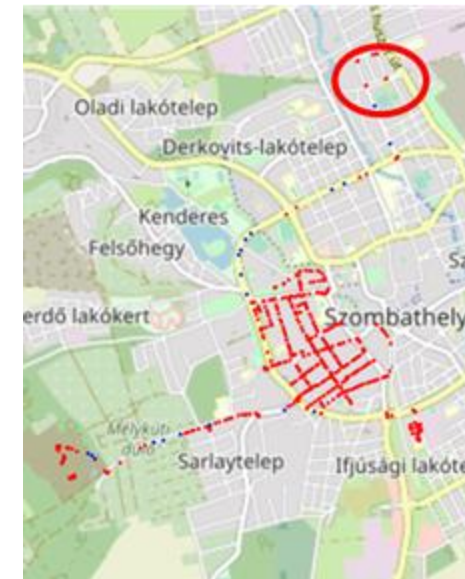
Szuák Virág  
*PBN, Szombathely*

# OD4Growth good practices

## Route planning optimization of waste collection vehicles with the help of open data

Aim: improve the efficiency of waste collection services

GPS data, running times, working areas of the garbage trucks were examined and analyzed on OpenStreetMap to see **if there is extra capacity in the system, if changes in the boundaries of the districts, including the routes, are needed**



# OD4Growth good practices

## Route planning optimization of waste collection vehicles with the help of open data

Resources needed:

Data types: GPS data, running times, working areas of the garbage trucks

Open data – Open Street Map: number of residents in areas, cartographic data

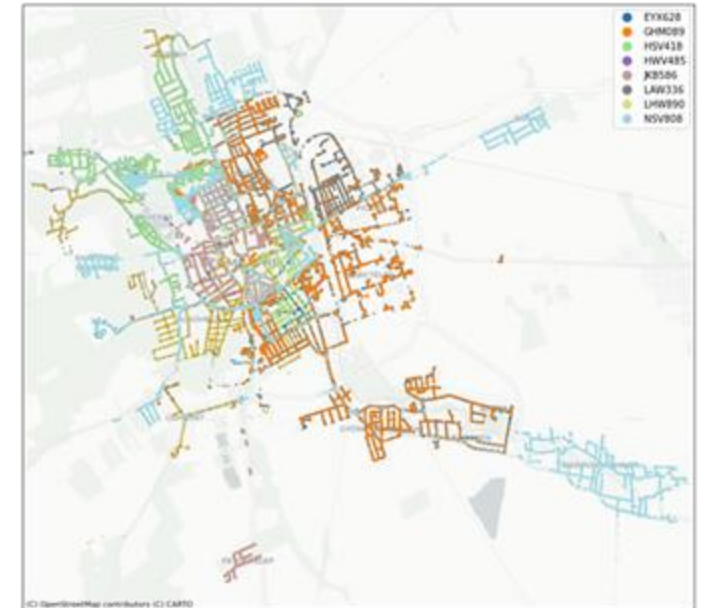
Human resources: 2 people, 2 months

Beneficiaries & users:

- Municipality of Szombathely
- SZOVA Zrt
- Citizens

Benefits:

- Lower costs, reduce redundancy, and improve efficiencies
- Faster collection times, allowing more areas to be covered





# JustNature project - digital twin



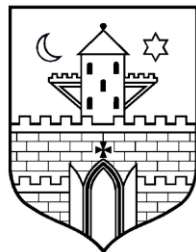
**Luca Somlai**

*Municipality of Szombathely City*

# OD4Growth good practices (PP4)

## JustNature project – digital twin

JustNature was an international HORIZON project focusing on sustainable urban development by including the citizens and stakeholders into the decision making. During the lifespan of the project a digital twin was created of South-Szombathely area. The digital twin uses orthographic and cartographic data by georeferencing as well as, data from sensors and existing data from the Municipality. It can model changes and effects.



# OD4Growth good practices (PP4)

## JustNature project – digital twin

### Resources needed

Data types: orthophotos, air and soil quality data from sensor

Open data – cartographic data and tree register  
Human resources: from the Municipality's side 2 person for 6 month approx.

### Beneficiaries & users:

- Municipality of Szombathely
- Szompark Inc. and SZOVA Zrt.
- Citizens

### Benefits:

- Smart and sustainable data-driven decision making
- Organizing existing and incoming data in one place





# Water Network Mapping



**Karolina Bernotienė**

*Administration of Silute district municipality*

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9. Working with Data
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**Practice Name: Interactive map of managed networks operated by UAB "Šilutės waters,,**

**Dimension: Increase quality standards of public services with Open Data implementation**

**Organization in charge: UAB „Silute waters“**



UAB "ŠILUTĖS VANDENYS"



# Good Practice: Interactive map of managed networks operated by UAB "Šilutės waters"

## JSC "Šilutės vandenys" main directions of activity are:

Drinking water supply

Water pumps extracting water from an underground aquifer and delivering it to the water distribution network

Wastewater collection

- Trough gravity/pressure network
- By transporting with special purpose vehicles

Stormwater collection

Trough gravity network

Wastewater cleaning

Treatment of sludge during the cleaning process of wastewater

Water, wastewater and stormwater laboratory analysis



# Silute waters Key Figures & Infrastructure

Servicing customers (individual/commercial) - 15227

Water supply network – 386 km

- Network closing valves - ~1500 units
- Inspection cameras - ~2000 units
- Fire hydrants – 213 units

Wastewater network:

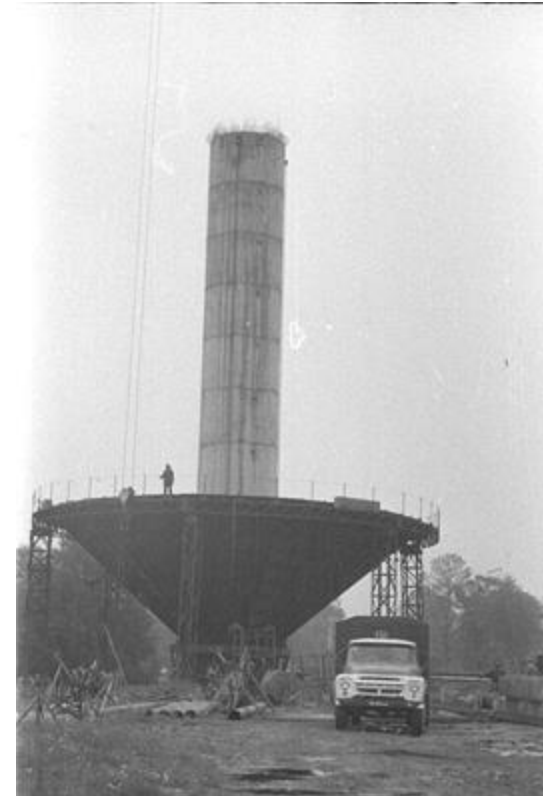
- Gravity network – 267 km – depth 1 to 6 m
- Inspection cameras - ~9000 units
- Pressure network – 35 km
  - Wastewater pumping stations – 88 units

Stormwater network – 51 km

- Inspection cameras - ~3000 units

Main water treatment plant capacity - ~10000 m<sup>3</sup>/day

Smaller water treatment plant capacities – 30 to 250 m<sup>3</sup>/day





# Data digitalization

In 2014 „Šilutė Waters“ purchased ESRI ArcGIS software and used with ESRI cloud version (ArGIS Online)

## Sources of water infrastructure data

Various old paper plans

Old „as build“ technical documentation

Paper

AutoCAD dwg files

Topographic territory plans

Paper

AutoCAD dwg files

Colleagues information

GNSS geodetic measurements



# GIS database creation

## Database structure:

### Water network dataset

- Pipes (linear feature)
- Inspection cameras, closing valves (point objects)

### Wastewater network dataset

- Pipes (linear feature)
- Inspection cameras (point objects)

### Stormwater network dataset

- Pipes (linear feature)
- Inspection cameras (point objects)



# Working with data

Pipes are different in diameter

Inspection cameras are different in diameter

Since data input is a long process, therefore creating templates let's the job making easier

2017 was the year when a lot of data was collected to one single database

Main able to see it anytime/anywhere online purpose having data digitally in one place was for colleagues to

By end of 2019 all data was transferred to ArcGIS Enterprise platform (GIS Server)



# Interactive maps

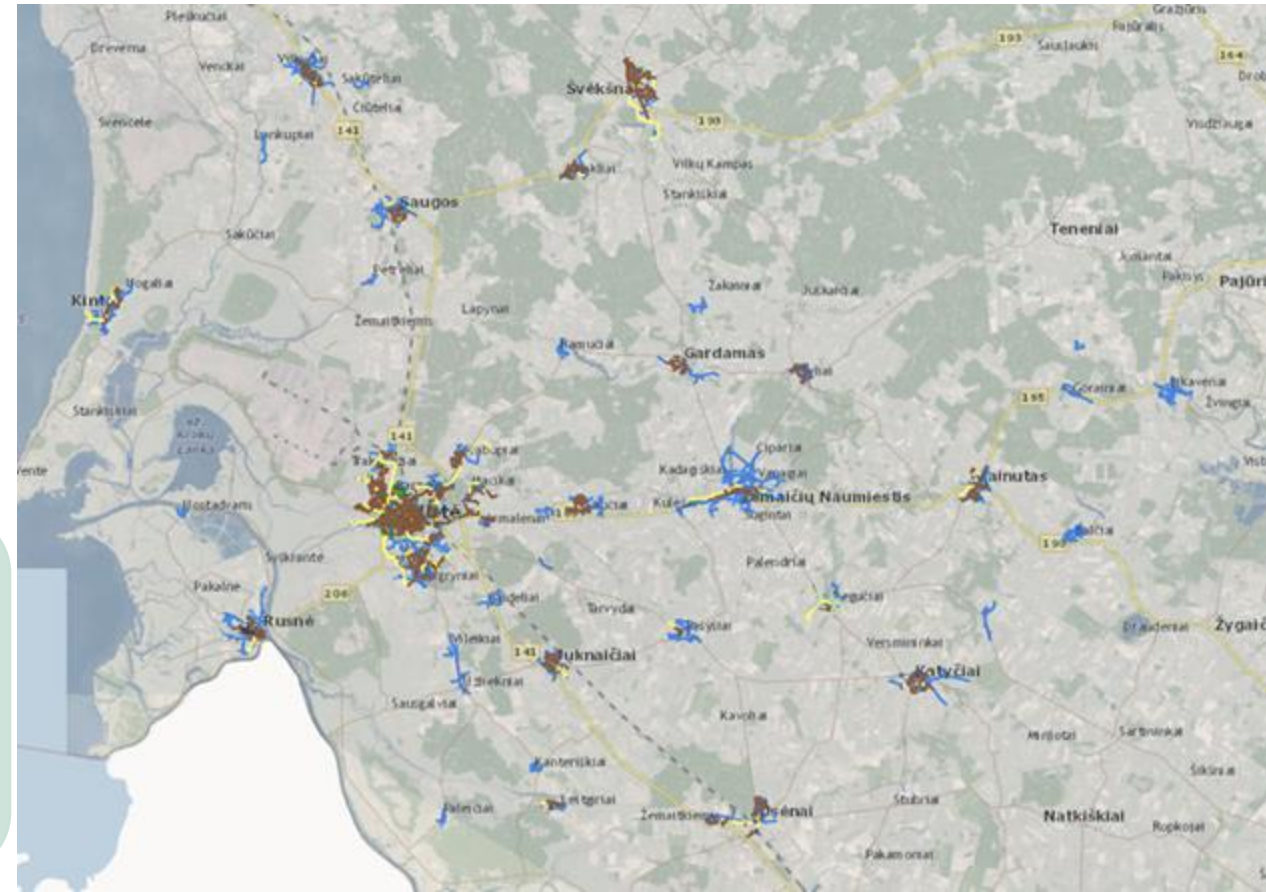
A lot of data transferred to GIS format

- Fast and simple to use
- Easy to share on demand
- All data at one place

Published maps

Maps accesibility :

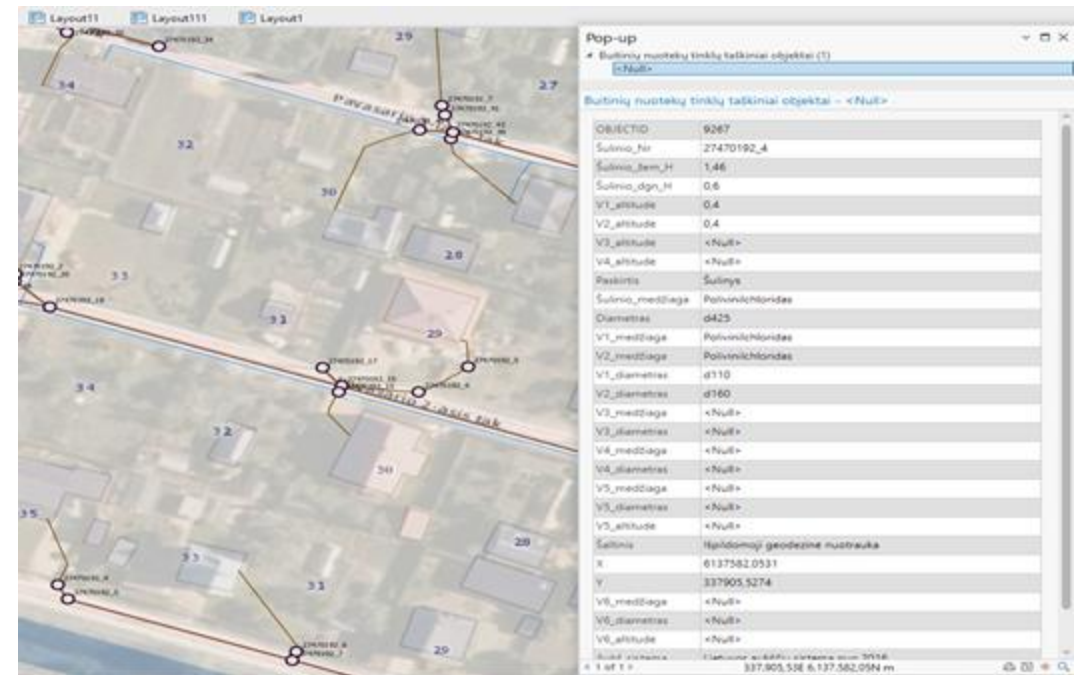
- Published infrastructre map
- Failure in water supply network dashboard map (public/internal use)
- All infrastructure in online 24/7 at no cost



# Interactive maps information

## The maps contain information of:

- Fire hydrants
- Water supply point and linear objects – working/not working
- Underground closing valves
- Wastewater linear objects
- Stormwater linear objects
- Addresses of the Republic of Lithuania
- Sanitary protection zones of watercourses
- Water and Wastewater network can be seen – in orthophoto format and in various layers.



# Thank you!

[www.interregeurope.eu/od4growth](http://www.interregeurope.eu/od4growth)

# Some ways geOrchestra is used in Rennes Métropole

**Catherine PITON-MORALES**

Cheffe de projets

Service Données Territoriales et Information Géographique

Rennes Métropole -Ville de Rennes

[c.morales@rennesmetropole.fr](mailto:c.morales@rennesmetropole.fr)



# Some ways geOrchestra is used in Rennes Métropole



400  
Grounds  
maintenance staff



100 000  
trees

## Managing green spaces of Rennes

- Gain a thorough understanding of the green space assets to manage them more effectively: trees, grassy areas, paved surfaces, benches, trash cans, planters, etc.
- Plan field operations: tree pruning...
- Plan and communicate about landscaping projects,
- Make informed decisions on landscaping requests



Recherche par nom de lieu

Site 0587 Quartier 2 - THABOR / SAINT-HELIER / ALPHONSE GUERIN / BAUD-CHARDONNET

GESTION  
Secteur entretien Botanique  
Num Équipe Équipe 41  
Gestionnaire EV Direction des Jardins  
Code maintenance 1

ESPACES	TYPES	MÈTRES	SURFACE TOTALE
Espaces plantés	Massifs champêtres (m <sup>2</sup> )	/	/
	Haie (m)	/	/
	Boisement (m <sup>2</sup> )	0	/
	Jardin familial (m <sup>2</sup> )	0	/
	Massif d'arbustes (m <sup>2</sup> )	10 316	62 848 m <sup>2</sup>
	Massif floral (m <sup>2</sup> )	2 590	
	Massif de rosiers (m <sup>2</sup> )	953	
	Massif de vivaces (m <sup>2</sup> )	2 164	
	Noüe (m <sup>2</sup> )	0	
	Surface enherbée (m <sup>2</sup> )	46 825	
Espaces d'occupation	Plan d'eau	Non renseigné	37 287 m <sup>2</sup>
	Surface minérale (m <sup>2</sup> )	37 287	
SURFACES TOTALES ENTRETIENNES		100 135 m <sup>2</sup>	

DESCRIPTION  
Propriétaire Ville de Rennes  
Typologie Parcs - Squares - Jardins quartiers  
Surface site (m<sup>2</sup>) 108 291,86  
Surface entretenue (m<sup>2</sup>)(%) 100 135 m<sup>2</sup>soit 92% du site

Échelle : 1:1066

Example of a form that lists all the components of each green space



# Some ways geOrchestra is used in Rennes Métropole



5308  
development  
Programs from 2007

**Urban Planning Operations Dashboard**

**Principaux Indicateurs (en bref)**

Commune	Rennes
Nom	E1
Etape	Réalisé
Vocation principale	Mixte
Date de démarrage	05/07/2010
Avancement opérationnel et échéanciers prévisionnels	approbation de la 3ème modification du dossier de réalisation (modification du programme des équipements publics) par DCM du 09/10/2023

**Gouvernance**

Maître d'ouvrage	SOREIM COOP DE CONSTRUCTION
Maîtrise d'oeuvre urbaine	PERIPHERIQUES - AFJA (Anne François...)

**Suivi opérationnel (prévisionnel, terrain)**

A specific Viewer plugin

## Urban Planning Operations Dashboard

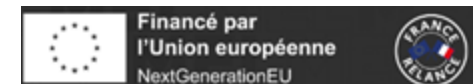
- Share information on the progress of urban planning projects
- Update detailed information on ongoing programs
- Different roles for different functions : view, contribute, manage



# Démarche d'ouverture des données à la Métropole Européenne de Lille

**Florent BERAULT**

Chargé de mission mutualisation de la donnée  
Métropole Européenne de Lille  
[fberault@lillemetropole.fr](mailto:fberault@lillemetropole.fr)





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**Time for  
questions**



# Thank you!

[www.interregeurope.eu/ACRONYM](http://www.interregeurope.eu/ACRONYM)